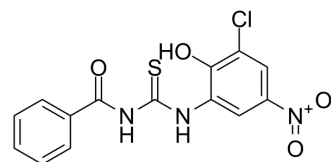


PIT-1

Cat. No.:	HY-103224
CAS No.:	53501-41-0
Molecular Formula:	C ₁₄ H ₁₀ ClN ₃ O ₄ S
Molecular Weight:	351.76
Target:	PI3K
Pathway:	PI3K/Akt/mTOR
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (177.68 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.8428 mL	14.2142 mL	28.4285 mL
	5 mM	0.5686 mL	2.8428 mL	5.6857 mL
	10 mM	0.2843 mL	1.4214 mL	2.8428 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

PIT-1 is a selective PIP3 (phosphatidylinositol 3,4,5-trisphosphate) antagonist. PIT-1 inhibits cancer cell survival and induces apoptosis by inhibition of PIP3 dependent PI3K / Akt signaling. PIT-1 exhibits antitumor activity in vivo^[1].

REFERENCES

[1]. Miao B, et al. Small molecule inhibition of phosphatidylinositol-3,4,5-triphosphate (PIP3) binding to pleckstrin homology domains. Proc Natl Acad Sci U S A. 2010 Nov 16;107(46):20126-31.

Caution: Product has not been fully validated for medical applications. For research use only.

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